

# Safoan Miah

United Kingdom, London

[github.com/SafoanMiah](https://github.com/SafoanMiah) | [linkedin.com/in/safoan](https://www.linkedin.com/in/safoan)

[safmiah.sm@gmail.com](mailto:safmiah.sm@gmail.com) | +44 7404034660

portfolio site: <https://safoan.me>

## EDUCATION

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**Northeastern University (London)** — BSc (Hons) in Data Science – 4.0 GPA (First)

Sep 2023 – Sep 2026

- **Relevant Courses:** ML, Data Mining, Object-Oriented C#, Statistics, Databases, Visualizations

**Mulberry Academy Shoreditch** — A Levels

Sep 2021 – Sep 2023

- **Subjects:** Computer Science, Physics, Maths, EPQ

## PROJECTS AND SKILLS

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**RL Emergency Autonomous Vehicle (CARLA)**

[github.com/SafoanMiah/RL-emergency-autonomous-driving](https://github.com/SafoanMiah/RL-emergency-autonomous-driving)

- Developed a Reinforcement Learning model for emergency vehicles, prioritizing speed and travel time through a custom environment with sensors, and PPO for training, model was 4x faster in point A-B navigation compared to standard built-in autopilot.

**Deep Convolutional Neural Network (Quick Draw)**

<https://github.com/SafoanMiah/quick-draw-neural-net>

- Developed a Deep Learning CNN using PyTorch to learn from the quick draw dataset, consisting of 50 million drawings. Achieved ~ 90% accuracy and deployed it as a Web API to be used on personal sites.

**Programming:** Python (Data, Pandas, NumPy), PostgreSQL, PyTorch, Data Visualization Tools, C#

**Machine Learning:** Regression, CNNs, Clustering, Neural Networks, RL, A/B Testing

## EXPERIENCE

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**Software Academy Programming Tutor**

Apr 2024 — Present

- Mentored Python and Data projects, simplifying technical concepts for non-technical learners.
- Collaborated with co-workers to create plans and applications to track and monitor the students' progress and engagement. Discovered that average grades increased by 60% within 2 semesters.

**Outlier — AI Evaluator**

Feb 2024 – Jan 2025

- Assessed and ranked AI-generated maths solutions, enhancing model accuracy by 15%.
- Developed a structured evaluation framework, providing feedback, and correcting the mathematical model, improving model reliability and reasoning for deployment.

**HSBC insight — Global Banking & Global Markets — Intern**

Apr 2024

- Developed actionable insights using financial data, with a regression model, contributing to a strategic case report that improved market evaluation by 30% over using no model.
- Led quantitative analysis of 10+ case studies through quantitative analysis, revealing critical trends that shaped marketing and financial strategies.

## CERTIFICATIONS & COURSES

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**Data Science:** Machine Learning Bootcamp, SQL Bootcamp, IBM Data Science Cert, PyTorch

**Finance & Markets:** Bloomberg Markets, AmplifyME Finance

**Additional:** J.P. Morgan STEM program, RAF Air Cadets (3 years)